

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|  |   |   |
|--|---|---|
| Applicant's or agent's file reference<br>7071-00 | <b>FOR FURTHER<br/>ACTION</b>   | see Notification of Transmittal of International Search Report<br>(Form PCT/ISA/220) as well as, where applicable, item 5<br>below. |
| International application No.<br>PCT/US03/33919  | International filing date ( <i>day/month/year</i> )<br>24 October 2003 (24.10.2003) | (Earliest) Priority Date ( <i>day/month/year</i> )<br>25 October 2002 (25.10.2002)  |
| Applicant<br>COLGATE-PALMOLIVE COMPANY           |   |   |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the Report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

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the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐

contained in the international application in written form.

☐

filed together with the international application in computer readable form.

☐

furnished subsequently to this Authority in written form.

☐

furnished subsequently to this Authority in computer readable form.

☐

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒

the text is approved as submitted by the applicant.

☐

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐

the text is approved as submitted by the applicant.

☒

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 1

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as suggested by the applicant.

☐

None of the figures

☐

because the applicant failed to suggest a figure.

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because this figure better characterizes the invention.

## Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

## NEW ABSTRACT

A toothbrush (10) is provided with a detachably mounted cover (26) located outwardly of the cleaning elements (24). The cover (26) preferably includes ornamentation (28) on its outer face. A decorative overlay (52) may be releasably attached to the cover (26) to further enhance the visual attraction of the toothbrush (10) to a user. The cover (26) is releasably mounted to the head (14) of the toothbrush (10) in such a manner that there is air flow and air circulation through the cleaning elements (24) mounted on the head (14). Various types of mounting structure could be used which results in the cover (26) being readily attached to and removed from the toothbrush (10). A decorative escutcheon (50) releasably mounted to the handle (12) can be used to further enhance the visual attraction of the toothbrush (10) to prospective purchasers and users.

# INTERNATIONAL SEARCH REPORT

national application No.

PCT/US03/33919

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A46B 17/04

US CL : 15/184, 167.1; D4/113

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 15/184, 167.1; D4/113, 107, 124, 125, 199

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X          | US 5,048,144 A (ANDREWS) 17 September 1991, see entire document.                   | 11-13, 16-22          |
| ---        |  | 14                    |
| Y          |  | 14                    |
| Y          | US 5,771,521 A (Mc NAMEE) 30 June 1998, see entire document.                       | 14                    |
| Y          | US D334,290 A (GRUBERG) 30 March 1993, see entire document.                        | 11, 15                |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

10 March 2004 (10.03.2004)

Date of mailing of the international search report

27 APR 2004

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